

UNITED STATES PATENT AND TRADEMARK OFFICE

PPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFURMATION N
09/877,312	06/08/2001	Christophe Scriptovicz	PHN 16, 199B	9784
24232 7	999 01/23/2004		EXAMINER	
PHILIPS INTELLECTUAL PROPERTY & STANDARDS			HON, SOW FUN	
P.O. BOX 300	MANOR, NY 10510		ART UNIT	PAPER NUMBER

DATE MAILED 01/23/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Advisory Action	09/877,312	SERBUTOVIEZ ET AL	SERBUTOVIEZ ET AL.	
	Examiner	Art Unit		
	Sow-Fun Hon	1772		
The MAILING DATE of this communication	on appears on the cover sheet w	ith the correspondence addres	55	
THE REPLY FILED 15 December 2003 FAILS TO Therefore, further action by the applicant is require final rejection under 37 CFR 1.113 may only be eit condition for allowance; (2) a timely filed Notice of Examination (RCE) in compliance with 37 CFR 1.1	PLACE THIS APPLICATION of to avoid abandonment of this her. (1) a timely filed amendment Appeal (with appeal feet), or (2)	IN CONDITION FOR ALLOW a application. A proper reply to	ANCE.	
PERIOD F	OR REPLY (check either a) or	ы		
a) The period for reply expiresmonths from th	e mailing date of the final rejection.			
b) Si The period for regly expires on: (1) the malting data on event, however, with the stathstop period for resly ONLY CHECK THIS BOX WHEN THE FIRST REPL DESCRIPTION OF THE RESPONSION OF THE FIRST REPL CHECK THE RESPONSION OF THE FIRST REPL STATE OF THE RESPONSION OF THE FIRST REPL (2) as set forth in (c) above, if checked, Any regly received by This Middle Mary reduce any awared peter them adjustment 5	expire later than SIX MONTHS from to LY WAS FILED WITHIN TWO MONTI a). The date on which the petition una period of extension and the correspondate of the shortened statutory period the CMIOs shortened statutory period	he mailing date of the final rejection. IS OF THE FINAL REJECTION. Se ler 37 CFR 1.136(a) and the appropri dring amount of the fee. The appropr	e MPEP late extension rate extension	
A Notice of Appeal was filed on Appe 37 CFR 1.192(a), or any extension thereof (3)	ellant's Brief must be filed within	the period set forth in		
2. The proposed amendment(s) will not be ente				
(a) they raise new issues that would require	further consideration and/or se	earch (see NOTF below):		
(b) they raise the issue of new matter (see f	Note below);			
 (c) they are not deemed to place the applications issues for appeal; and/or 	ation in better form for appeal b	y materially reducing or simpli	ifying the	
(d) they present additional claims without ca	anceling a corresponding numb	per of finally rejected claims.		
NOTE:				
3. Applicant's reply has overcome the following	rejection(s):			
 Newly proposed or amended claim(s)v canceling the non-allowable claim(s). 				
 The a) affidavit, b) exhibit, or c) reque application in condition for allowance becaus 	st for reconsideration has been e: See attachment to advisory ac	n considered but does NOT pl	ace the	
 The affidavit or exhibit will NOT be considered raised by the Examiner in the final rejection. 	d because it is not directed SO	LELY to issues which were ne	wly	
 For purposes of Appeal, the proposed amend explanation of how the new or amended clair 	Iment(s) a) will not be enterent ms would be rejected is provide	d or b) will be entered and below or appended.	an	
The status of the claim(s) is (or will be) as follows:	ows:			
Claim(s) allowed: None.				
Claim(s) objected to: None.				
Claim(s) rejected: 5-9.				
Claim(s) withdrawn from consideration: 1-4,				
8. The drawing correction filed on is a)	approved or b) disapprove	ed by the Examiner.		
9. Note the attached Information Disclosure Stat	ement(s)(PTO-1449) Paper N	o(s).		
10.⊠ Other: <u>Attachment to advisory action</u>				
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S Palest and Trademark Office TOT J303 (Rev. 11-03)				

Application No.

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Applicant(s)

Advisory Action

- The request for reconsideration filed 12/15/03 has been considered but does not place the
 application in condition for allowance for the reasons set forth below.
- 2. Applicant argues that Takiguchi '497 does not teach or suggest an alkyl-phenol acrylate that is either readily miscible or poorly miscible with any liquid crystal in that Takigachi is only concerned with a combination of monofunctional and bifunctional monomer components wherein a specific range of HLB values for the components result in particular light dispersion proporties.

Applicant is respectfully reminded that IP '240 is the primary reference that teaches a mixture of one acrylate miscible with the liquid crystal and one acrylate poorly miscible with the liquid crystal. Furthermore, the secondary reference '497 does teach that the optimal HLB of the acrylate component varies depending on the kind and concentration of liquid crystal ('497, column 4, lines 55-65). '497 gives the specific example of a mixture of an acrylate with an HLB value of 1.8 and an acrylate with an HLB of 6.0 in a ratio by weight of 1:1 ('497, column 6, lines 15-50) wherein the difference between the two HLB values is a relatively significant 4.2, because the difference in miscibility provides an advantage for the end-use of the final product. This advantage of using a mixture of two acrylates with a relatively significant difference in miscibility with the liquid crystal is recognized by JP '240 which teaches that the mixture allows for good control of the phase separation structure of the PDLC (IP '240, English translation, section [0013]).

The difference between JP '240 and '497 is that JP '240 uses liquid crystal which is poorly miscible with the alkoxylated phenolacrylate while '497 uses liquid crystal which can be

either poorly miscible or readily miscible with the alkoxylated phenolacrylate as long as the other acrylate has an HLB value that balances the average overall HLB value to within the range from 2.5 to 7.0 ('497, column 6, lines 25-60). '497 thus demonstrates that the liquid crystal can be readily miscible with the alkoxylated phenolacrylate as long as the other acrylate has an HLB value that balances the average overall HLB value to within the set range.

3. Applicant argues that it is well known in the art of colloidal chemistry that compounds having an HLB value between 1 and 10 are predominantly lipophilic whereas HLB values greater than 10 indicate a predominance of hydrophilicity, and that therefore monomers (5) and (6) of the '497 patent are both predominantly lipophilic and therefore could both be incompatible with a very potar liquid crystal material even though monomer (6) is less lipophilic than monomer (5).

Applicant is respectfully reminded that the primary reference JP *240 teaches that the mixture of compatible and incompatible explates allows for good control of the phase separation structure of the PDLC (JP *240, English translation, section [0013]), and that the secondary reference '497 demonstrates that the liquid crystal can be readily miscible with the alkoxylated phenolacrylate instead of being immiscible, as long as the other acrylate has the opposite miscibility characteristic and has an HLB value that balances the average overall HLB value to within the set rance.

Applicant argues that the Office has failed to considered the fact that JP'240 fails to teach
an ethoxylated alkyl-phenolacrylate that is readily miscible with a liquid crystal material.
 Applicant is respectfully directed to the paragraph above.

Applicant argues that '497 clearly states that the formulas (7) and (8) are preferred when
used in combination because they can be obtained with no difficulty and have low vapor
pressure, not because of their miscibility.

Applicant is respectfully apprised that the fact that Applicant has recognized another advantage which would flow naturally from following the suggestion of the prior art cannot be the basis for patentability when the differences would otherwise be obvious. See Ex parte Obiaya, 227 USPQ 58, 60 (Bd. Pat. App. & Inter. 1985).

Applicant argues that '497 only teaches an alkyl-phenol acrylate that is part of a
monofunctional component mixture which also includes a monomer of formula (7) and does not
teach the use of an alkyl-phenol acrylate alone as a readily miscible component of a PDLC.

Applicant is respectfully reminded that the primary reference JP '240 teaches that the mixture of compatible and incompatible acrylates allows for good control of the phase separation structure of the PDLC (JP '240, English translation, section [0013]), and that the secondary reference '497 demonstrates that the liquid crystal can be missible with the alkoxylated phenolacrylate instead of being immiscible as long as the other acrylate has the opposite missibility characteristic and has an HLB value that balances the average overall HLB value to within the set range.

Any inquiry concerning this communication should be directed to Sow-Fun Hon whose telephone number is (571)272-1492. The examiner can normally be reached Monday to Friday from 9:00 AM to 5:00 PM. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Harold Pyon, can be reached at (571)272-1498. The fax phone number for the organization where this application or proceeding is assigned is (703)872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (571)272-1300.

Sow-Fun Hon 0:/14/0

HAROLD PYON'
SUPERVISORY PATENT EXAMINER
1/14/04